

B6;129-Pou4f1^{tm2.1Nat}/J

Stock No: **010558**

 Congenic, Targeted Mutation

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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express AP in the retina, several brain nuclei, dorsal root ganglia, trigeminal ganglion, and other cells/tissues.

Donating Investigator

Jeremy Nathans, Johns Hopkins University

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GENETIC OVERVIEW

Genetic Background

Generation

Pou4f1^{tm2.1Nat}

Alele Type

Targeted (Conditional ready (e.g. floxed), No functional change)

Gene Symbol

Pou4f1

Gene Name

POU domain, class 4, transcription factor 1

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

These mice possess *loxP* sites on either side of the *Pou4f1* (POU domain, class 4, transcription factor 1) coding region followed by an alkaline phosphatase (AP) reporter. Mice that are homozygous for this floxed allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. When crossed with a cre recombinase-expressing strain, the offspring express AP in the retina, several brain nuclei, dorsal root ganglia, trigeminal ganglion, and other cells/tissues. AP enzyme activity can be clearly detected histochemically.

Development

Selected References

Genetics

Pou4f1^{tm2.1Nat}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:[Pou4f1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintained as a live colony, heterozygotes or homozygotes may be bred.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;129-*Pou4f1*^{tm2.1Nat}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #010558 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)

Pricing & Availability



Cryo
Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for <i>Pou4f1</i> <tm2.1Nat>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;129- <i>Pou4f1</i> <tm2.1Nat>/J	\$2595.00
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THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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Q U E S T I O N S A B O U T T E R M S O F U S E

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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TOMORROW'S CURES



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